AMENDMENTS TO THE CLAIMS

1. (Currently amended) An online music-data-providing system via a Bluetooth headset, comprising:

a music-data-providing server for providing music data on line through a network;

a mobile communication system connected to the network;

a mobile station for wirelessly accessing the mobile communication system, and performing the Bluetooth protocol for short range links; and

a Bluetooth headset installed in a vehicle, having a Bluetooth function for performing ~~the~~ a Bluetooth protocol, for performing short range radio links by the Bluetooth protocol to the mobile station, receiving the music data from the music-data-providing server through the mobile station, reproducing them, and outputting them, wherein the Bluetooth headset comprises:

a Bluetooth communication unit for performing short range radio links by the Bluetooth protocol to the mobile station;

a decompressor for decoding the music data received from the mobile station through the Bluetooth communication unit, and decompressing them;

an audio output unit for processing the music data decompressed by the decompressor, reproducing them, and outputting them so that a user may listen to them through a plurality of speakers;

wherein the decompressor comprises:

a first decryptor for decompressing the music data in real-time while receiving the music data from the mobile station and outputting them to the audio output unit when the music data are streaming music data;

a decoder for decoding the music data after the music data are completely transmitted from the mobile station when the music data are general music data; and

a second decryptor for decompressing the music data decoded by the decoder and outputting them to the audio output unit.

2. (Currently amended) The system of claim 1, wherein the Bluetooth headset comprises:

~~a Bluetooth communication unit for performing short range radio links by the Bluetooth protocol to the mobile station;~~

~~a decompressor for decoding the music data received from the mobile station through the Bluetooth communication unit, and decompressing them;~~

~~an audio output unit for processing the music data decompressed by the decompressor, reproducing them, and outputting them so that a user may listen to them through a plurality of speakers;~~

a voice coder, comprising a microphone for receiving an external voice and outputting a corresponding voice signal, for processing the voice signal output through the microphone and outputting the same; and

a controller for controlling the Bluetooth communication unit, the decompressor, the audio output unit, and the voice coder to control the whole operation of the headset.

3. (Original) The system of claim 2, wherein the music-data-providing server provides streaming music data and general music data, and the decompressor determines types of

the music data provided by the music-data-providing server to perform a decompression operation.

4-5 (Canceled)

6. (Original) The system of claim 2, wherein the audio output unit comprises:

a D/A converter for converting the music data decompressed by the decompressor into analog signals; and

an amplifier for amplifying the analog signals output by the D/A converter and outputting them to the speaker.

7. (Original) The system of claim 1, wherein the mobile station comprises:

a wireless transmitting and receiving unit for receiving the music data from the music-data-providing server through radio links to the mobile communication system;

a user interface for receiving a user instruction, outputting it, and displaying predetermined information to the user;

a Bluetooth communication unit for performing short range radio links by the Bluetooth protocol to the Bluetooth headset; and

a controller for controlling the wireless transmitting and receiving unit, the user interface, and the Bluetooth communication unit to control the whole operation of the mobile station.

8. (Original) The system of claim 1, wherein when an external telephone call request is provided to the mobile station while the Bluetooth headset receives predetermined

music data from the music-data-providing server and reproduces them, the Bluetooth headset temporarily or completely stops reproducing the predetermined music data, and performs a hands-free function on the mobile station.

9. (Original) The system of claim 8, wherein the temporarily stopped music data are reproduced again after the external telephone call is finished.

10. (Original) The system of claim 1, wherein when an external voice call access request is provided to the mobile station while the Bluetooth headset receives predetermined music data from the music-data-providing server, the Bluetooth headset temporarily or completely stops receiving the predetermined music data and performs a hands-free function on the mobile station.

11. (Original) The system of claim 10, wherein the temporarily stopped music data are received again after the external telephone call is finished.

12. (Original) The system of claim 1, wherein the Bluetooth headset may call another Bluetooth headset located in the vicinity of the Bluetooth headset.